IN THE CLAIMS:

Please amend claims 1, 9, 17, and 25-27; and add new claims 36-47 as follows:

1.   (Four times amended) An apparatus for converting an input voice signal into an output voice signal according to a reference voice signal, the apparatus comprising:

extracting means for extracting only deterministic components from the input voice signal, the deterministic components including a plurality of sinusoidal wave components, wherein the input voice signal includes the deterministic components and residual components;

memory means for memorizing reference pitch information representative of a pitch of the reference voice signal;

modulating means for modulating the frequency value coordinates of the sinusoidal wave components of the input voice signal according to the reference pitch information retrieved from the memory means; and

mixing means for mixing the plurality of the sinusoidal wave components having the modulated frequency value coordinates to synthesize the output voice signal having a pitch different from that of the input voice signal and influenced by that of the reference voice signal.

9.   (Four times amended) An apparatus for converting an input voice signal into an output voice signal according to a reference voice signal, the apparatus comprising:

extracting means for extracting only deterministic components from the input voice signal, the deterministic components including a plurality of sinusoidal wave components, wherein the input voice signal includes the deterministic components and residual components;

memory means for memorizing reference amplitude information representative of amplitudes of the sinusoidal wave components contained in the reference voice signal;

modulating means for modulating the amplitude value coordinates of the sinusoidal wave components of the input voice signal extracted from the input voice signal according to the reference amplitude information retrieved from the memory means; and

mixing means for mixing the plurality of the sinusoidal wave components having the modulated amplitude value coordinates to synthesize the output voice signal having a timbre different from that of the input voice signal and influenced by that of the reference voice signal.

17.   (Four times amended) An apparatus for synthesizing an output voice signal from an input voice signal and a reference voice signal, the apparatus comprising:

an analyzer device that analyzes only deterministic components contained in the input voice signal to derive a parameter set of an original frequency and an original amplitude, the deterministic components including a plurality of sinusoidal wave components, wherein the input voice signal includes the deterministic components and residual components;

a source device that provides reference information characteristic of the

reference voice signal;

a modulator device that modulates the parameter set of the sinusoidal wave components according to the reference information; and

a regenerator device that operates according to each of the parameter sets as modulated to regenerate each of the sinusoidal wave components so that at least one of the frequency and the amplitude of each sinusoidal wave component as regerenated varies from the original one, and that mixes the regenerated sinusoidal wave components together to synthesize the output voice signal.

25.   (Four times amended) A method of converting an input voice signal into an output voice signal according to a reference voice signal, the method comprising the steps of:

extracting only deterministic components from the input voice signal, the deterministic components including a plurality of sinusoidal wave components, wherein the input voice signal includes the deterministic components and residual components;

memorizing referencing pitch information representative of a pitch of the reference voice signal;

modulating the frequency value coordinates of the sinusoidal wave components of the input voice signal according to the reference pitch information; and

mixing the plurality of the sinusoidal wave components having the modulated frequency value coordinates to synthesize the output voice signal having a pitch different from that of the input voice signal and influenced by that of the reference voice signal.

26.   (Four times amended) A method of converting an input voice signal into

an output voice signal according to a reference voice signal, the method comprising the steps of:

extracting only deterministic components from the input voice signal, the deterministic components including a plurality of sinusoidal wave components, wherein the input voice signal includes the deterministic components and residual components;

memorizing reference amplitude information representative of amplitudes of the sinusoidal wave components contained in the reference voice signal;

modulating the amplitude value coordinates of the sinusoidal wave components of the input voice signal extracted from the input voice signal according to the reference amplitude information retrieved from the memory means; and

mixing the plurality of the sinusoidal wave components having the modulated amplitude value coordinates to synthesize the output vice signal having a timbre different from that of the input voice signal and influenced by that of the reference voice signal.

27. (Four times amended) A machine readable medium used in a computer machine havings a CPU for synthesizing an output voice signal from an input voice signal, the medium contain program instructions executed by the CPU for causing the computer machine to perform the method comprising the steps of:

analyzing only deterministic components contained in the input voice signal to derive a parameter set of an original frequency and an original amplitude, the deterministic components including a plurality of sinusoidal wave components, wherein the input voice signal includes the deterministic components and residual components;

providing reference information characteristic of the reference voice signal;

modulating the parameter set of the sinusoidal wave components according to the reference information; and

regerating each of the sinusoidal wave components according to each of the modulated parameter sets so that at least one of the frequency and the amplitude of each regenerated sinusoidal wave components varies from the original one, and mixing the regerenated sinusoidal wave components together to synthesize the output voice signal.

36.   (New) The apparatus according to claim 1, wherein the deterministic components include peak values of the input voice signal in a frequency spectrum.

37.   (New) The apparatus according to claim 1, wherein the residual components include deviation components between a synthetic voice signal and the input voice signal.

38.   (New) The apparatus according to claim 9, wherein the deterministic components include peak values of the input voice signal in a frequency spectrum.

39.   (New) The apparatus according to claim 9, wherein the residual components include deviation components between a synthetic voice signal and the input voice signal.

40.   (New) The apparatus according to claim 17, wherein the deterministic components include peak values of the input voice signal in a frequency spectrum.

41.   (New) The apparatus according to claim 17, wherein the residual components include deviation components between a synthetic voice signal and the input voice signal.

42.   (New) The method according to claim 25, wherein the deterministic

components include peak values of the input voice signal in a frequency spectrum.

43.   (New) The method according to claim 25, wherein the residual components include deviation components between a synthetic voice signal and the input voice signal.

44.   (New) The method according to claim 26, wherein the deterministic components include peak values of the input voice signal in a frequency spectrum.

45.   (New) The method according to claim 26, wherein the residual components include deviation components between a synthetic voice signal and the input voice signal.

46.   (New) The machine-readable medium according to claim 27, wherein the deterministic components include peak values of the input voice signal in a frequency spectrum.

47.   (New) The machine-readable medium according to claim 27, wherein the residual components include deviation components between a synthetic voice signal and the input voice signal.

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